

Input file flh14926cons; Output File flh14926tra
Sequence length 2818

CCACGCGTCCGATTATAGAAAGAAGCTATAGTCTGTCGGGATATCCAACACCAACAGGGCTTACTGAGAGCTCCATTT
CTGGAAAGCCTTACAAGACTGAGGAATATCAGACTGCGAATCACCGGGAACGGTTCCCTTTGCAGCACAGAAGCAATCTC
TCTCCCCATCTTCGCATATTCTAATGGCAAAACAAGTGAAGAAAAGAGGAAGCATGACTGCAGATCAGATCAGTTCTC
TTTGTGGATTATATTTTCAGTAAATGTATGGATCTATCTTTTCCTTGTTCTTATATCTAGATCATGAGACTTGACTGA

	M A N Y S H A A D N I L Q	13
GGCTGTATCCTTATCTCCATCCATCT	ATG GCG AAC TAT AGC CAT GCA GCT GAC AAC ATT TTG CAA	39
N L S P L T A F L K L T S L G F I I G V		33
AAT CTC TCG CCT CTA ACA GCC TTT CTG AAA CTG ACT TCC TTG GGT TTC ATA ATA GGA GTC		99
S V V G N L L I S I L L V K D K T L H R		53
AGC GTG GTG GGC AAC CTC CTG ATC TCC ATT TTG CTA GTG AAA GAT AAG ACC TTG CAT AGA		159
A P Y Y F L L D L C C S D I L R S A I C		73
GCA CCT TAC TAC TTC CTG TTG GAT CTT TGC TGT TCA GAT ATC CTC AGA TCT GCA ATT TGT		219
F P F V F N S V K N G S T W T Y G T L T		93
TTC CCA TTT GTG TTC AAC TCT GTC AAA AAT GGC TCT ACC TGG ACT TAT GGG ACT CTG ACT		279
C K V I A F L G V L S C F H T A F M L F		113
TGC AAA GTG ATT GCC TTT CTG GGG GTT TTG TCC TGT TTC CAC ACT GCT TTC ATG CTC TTC		339
C I S V T R Y L A I A H H R F Y T K R L		133
TGC ATC AGT GTC <u>ACC AGA TAC</u> TTA GCT ATC GCC CAT CAC CGC TTC TAT ACA AAG AGG CTG		399
T F W T C L A V I C M V W T L S V A M A		153
ACC TTT TGG ACG TGT CTG GCT GTG ATC TGT ATG GTG TGG ACT CTG TCT GTG GCC ATG GCA		459
F P P V L D V G T Y S F I R E E D Q C T		173
TTT CCC CCG GTT TTA GAC GTG GGC ACT TAC TCA TTC ATT AGG GAG GAA GAT CAA TGC ACC		519
F Q H R S F R A N D S L G F M L L L A L		193
TTC CAA CAC CGC TCC TTC AGG GCT AAT GAT TCC TTA GGA TTT ATG CTG CTT CTT GCT CTC		579
I L L A T Q L V Y L K L I F F V H D R R		213
ATC CTC CTA GCC ACA CAG CTT GTC TAC CTC AAG CTG ATA TTT TTC GTC CAC GAT CGA AGA		639
K M K P V Q F V A A V S Q N W T F H G P		233
AAA ATG AAG CCA GTC CAG TTT GTA GCA GCA GTC AGC CAG AAC TGG ACT TTT CAT GGT CCT		699
G A S G Q A A A N W L A G F G R G P T P		253
GGA GCC AGT GGC CAG GCA GCT GCC AAT TGG CTA GCA GGA TTT GGA AGG GGT CCC ACA CCA		759
P T L L G I R Q N A N T T G R R R L L V		273
CCC ACC TTG CTG GGC ATC AGG CAA AAT GCA AAC ACC ACA GGC AGA AGA AGG CTA TTG GTC		819
L D E F K M E K R I S R M F Y I M T F L		293
TTA GAC GAG TTC AAA ATG GAG AAA AGA ATC AGC AGA ATG TTC TAT ATA ATG ACT TTT CTG		879
F L T L W G P Y L V A C Y W R V F A R G		313
TTT CTA ACC TTG TGG GGC CCC TAC CTG GTG GCC TGT TAT TGG AGA GTT TTT GCA AGA GGG		939

FIGURE 1

00383745.082699

P	V	V	P	G	G	F	L	T	A	A	V	W	M	S	F	A	Q	A	G		333
CCT	GTA	GTA	CCA	GGG	GGA	TTT	CTA	ACA	GCT	GCT	GTC	TGG	ATG	AGT	TTT	GCC	CAA	GCA	GGA		999
I	N	P	F	V	C	I	F	S	N	R	E	L	R	R	C	F	S	T	T		353
ATC	AAT	CCT	TTT	GTC	TGC	ATT	TTC	TCA	AAC	AGG	GAG	CTG	AGG	CGC	TGT	TTC	AGC	ACA	ACC		1059
L	L	Y	C	R	K	S	R	L	P	R	E	P	Y	C	V	I	*				371
CTT	CTT	TAG	TGC	AGA	AAA	TCC	AGG	TTA	CCA	AGG	GAA	CCT	TAC	TGT	GTT	ATA	TGA				1113

GGGAGCATCTGTAAATCTTTAGCCTTGTTGAAAACCTAACCTTCTCTGCTGAGCAATTGTGGCCCATAGCCATATTTTGAG
AAGAAATTCAAGAATGGAATCAGCAGTTTAAAGGATTTGGGCAACATTCTGCAGTCTTTGCAATAGTTCACCTATAATC
CTATTTTAAATCTCAGAGTGATCCTGCTGACTGCCAGCAAAGGTTTGTAAATTAAGAAGGGACTGAACCACTGCCCTAAG
TTTCTTTATGTGGTCAAAAACTAGATAATGAAAGTAGCAGGTGCTAAGTATCAGTGCTAAATGCTCTGTATGTCACTAC
ATATGAAAAAACATCAAAAAACAATTAGCATTTGGACATCTTAATAAAATTAAGTTGACATGAGGTAAATGTGTTGATAAA
AACTAATTTTAGAAGTTTGAAGACTTTAAAACATTTCACTACTACTATGTTTTGCAAAGACTAAAATATTTGGGGACTT
AAAGTACTGTAATCCACTAAAGACGTGCCAATGAATTATGGAATATCACACTTTAAAAACCGCCTTGTAAGTTCTGGG
GAGCATTCCAAAGCAGTATATTGGTTCCAATTAGAGTTTACTTTTTTTGTATTAATACATTGCTATTTCTAAATACCAC
TTTCTCATCTACTAGTAAGATTGCTAGCATTGAAGTGTATTATGTGGTTTTTTGTGATTGTTGTTATAAAGTTTTTCCAA
TTCATTTATATTTTACAAATGCTAGATATTGGTCTGGGAGGCAACATTAATGGTACCAGCCTGTCACAACCTGAGCAGTT
CTAATAATGCAGAATAAACACATGTTGCCTTAAAGGGTTATCTAGKATCCYTTTCATCTTATTAGCACTGGAGCAAATAG
YCAAGGGAAATCRAATCAGTAACTGGTCATGGTCATGCATCTRAAAGTGCATGGAAGATCATTAGTACTTTTTCCTTT
TTTCTCACATGGTTTGAAACTTAAAGTGCACATCMCTGAAATAATGAGATTTTCTTTTRMGGTGTGCTACCCTTYYTAR
ASTGTTCTAAGAAGCAGGCAGTTGATGTATGTTTATATTTTAAAGTCAGCTGTCGAGGGGAGACCACAGCCTTAGTATGA
CATCCTGCACAATTTGTGAAGCATTTATTCTACTGAAGGCACAGTCTTGTTTATACTTTCTGCACATTTCAGTGTATTGG
TCATTTAAATTATTTTCAGTTTAACTTGTGAAAGCTTATAATATGATTCTGTTTATTTAGAAATACATTAGAGTCTGT
GAGTCTCATTCTTTAAGATACANATGTGTGAACCTCAATATAAAGTTGCATTTGCCAAAATTTAAAAAAAAAAAAAAAAA
AAAAAAAAA

FIGURE 1 (CONT'D)

Protein Family/Domain HMM Matches for flh14926orfaa

>PF00001|7tm_1 7 transmembrane receptor (rhodopsin family)

Score: 146.01 Seq: 37 339 Model: 1 269

flh14926or 37 *GNI LVIWvIcRyRRMRTPMNYFIvNLAvADLLFslftMPFWMvYyvMqg
GN+L+ +++++ + +++ ++YF++ L +D+L S ++PF + + ++ 85
GNLLISILLVKDKTLHRAPYYFLDLCCSDILRSAICFPFVFNsvKNGS

flh14926or 86 RWpFGdfmCrIWmYFDYMNMYASIFfLTcISIDRYLWAICHPMrYmRWMT
+W++G++ C+++ ++ +++++ F+L CIS+ RYL AI H Y + T 134
TWTYGTLTCKVIAFLGVLSCFHTAFMLFCISVTRYL-AIAHHRFYTKRLT

flh14926or 135 pRHRawMIiIwVMSFLISMPPFLMFr.WstYrDEneWnmTWcmIyDWP
+ +++++I+++W++S++++PP+L + +S+ R E++ C++ + 175
FW-TCLAVICMVWTLsvAMAFPPVLDVGTYSFIREEDQ-----CTF-Q--

flh14926or 176 ewMWrWYvILmtiimgFYIPMiIMlFCYwRIYRIaRlWMRMIpswQr...
+R++ +GF++ + ++L ++Y + ++ + ++ 217
---HRSFR-ANDS-LGFMLLLALILLATQLVYLKLIFVHVR---RKMKP

flh14926or 218
VQFVAAVSQNWTFHGPgASGQAAANWLAGFGRGPTPPTLLGIRQNANTTG 267

flh14926or 268 RRrmS....mRrERRivKMliIIMvVFIIcWlPYFIvmfMDTLMMwwFCe
RRR+ +++E+RI++M I+ ++F+ W+PY ++ + +++F 312
RRRLVLDEFKMEKRISRMFYIMTFLFLTLWGPYLVACY-----WRVFAR

flh14926or 313 fC.IwrrlWmYIfewLaYvNCpCiNPiiY*
++ + +++W++++ INP++
GPVVPGGFLT-AAVWMSFAQA-GINPFVC 339

>MILPAT06928|ngf NGF / BDNF / Neurotrophins 3,4, and 6 family of cytokines

Score: 0.47 Seq: 290 302 Model: 1 13

REF xxxxxxxxxxxxxx
MSMLFYTMFIsYF
M+ LF+T+ +Y+
flh14926or 290 MTFLFLTLWGPYL 302

FIGURE 2

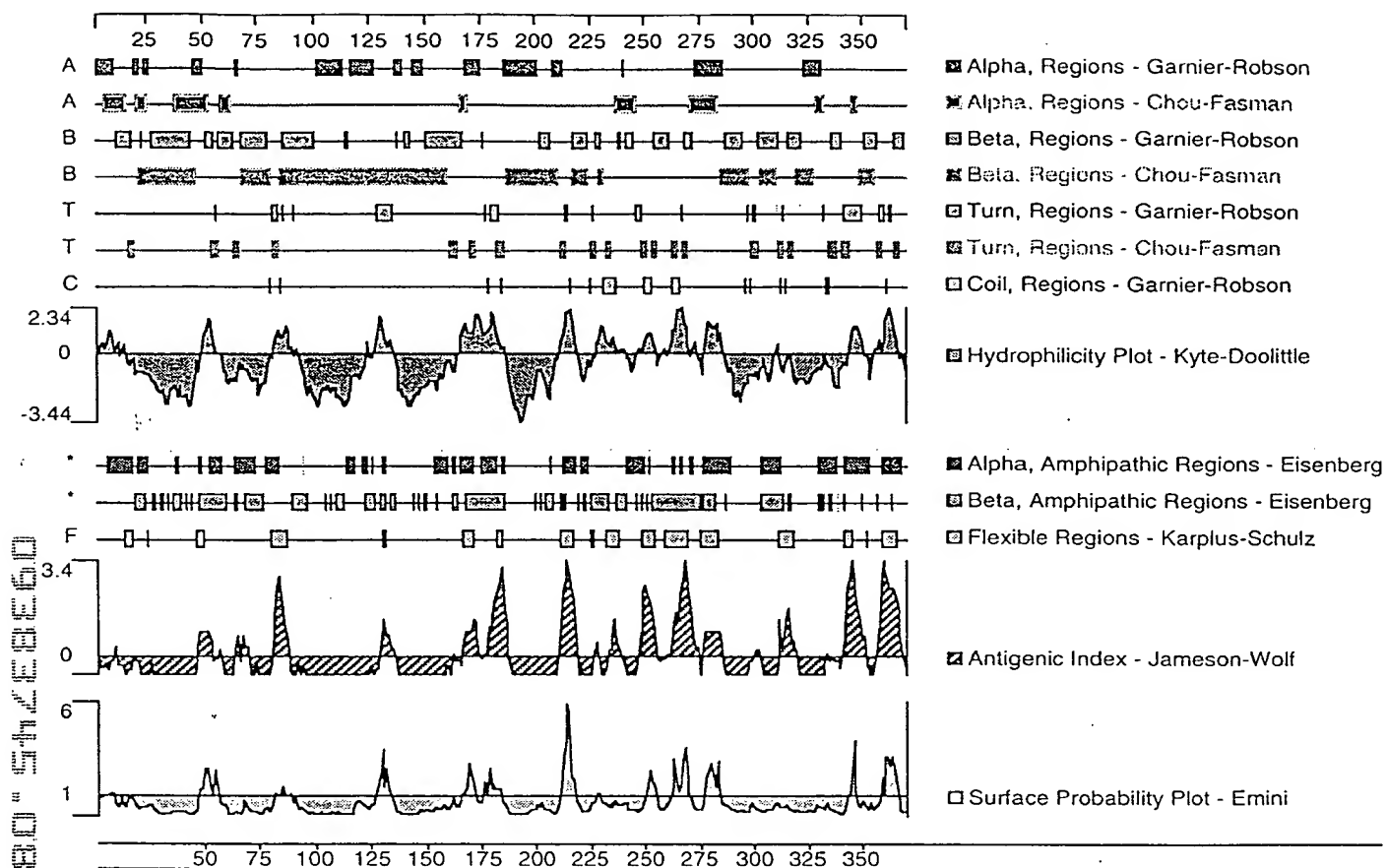


FIGURE 3

prositescan will scan one or more sequences against a set of sequence patterns

Database: Release 12.2 of February 1995

Tue Apr 7 18:49:19 1998

1025 patterns

Query= flh14926orfaa

>PS00001|PDOC00001|ASN_GLYCOSYLATION N-glycosylation site.
N[^*P]{ST}[^*P]

Query: 3 NYSH 6

Query: 83 NGST 86

Query: 182NDSL 185

Query: 227NWTF 230

Query: 264NTTG 267

>PS00004|PDOC00004|CAMP_PHOSPHO_SITE cAMP- and cGMP-dependent protein kinase
phosphorylation site.
[RK]{2}[A-Z]{ST}

Query: 131KRLT 134

Query: 281KRIS 284

>PS00005|PDOC00005|PKC_PHOSPHO_SITE Protein kinase C phosphorylation site.
[ST][A-Z]{2}[RK]

Query: 80 SVK82

Query: 93 TCK95

Query: 130TKR132

Query: 178SFR180

Query: 266TGR268

Query: 342SNR344

>PS00006|PDOC00006|CK2_PHOSPHO_SITE Casein kinase II phosphorylation site.
[ST][A-Z]{2}[DE]

Query: 342SNRE 345

>PS00008|PDOC00008|MYRISTYL N-myristoylation site.
G[^*EDRKHPFYW][A-Z]{2}[STAGCN][^*P]

Query: 84 GSTWTY 89

Query: 90 GTLTCK 95

Query: 101 GVLSCF 106

Query: 237 GQAAAN 242

Query: 258 GIRQNA 263

Query: 318 GGFLTA 323

>PS00009|PDOC00009|AMIDATION Amidation site.
[A-Z]G[RK][RK]

Query: 266 TGRR 269

00303745.082699
669280"sh28260

FIGURE 5 (CONT'D)